

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 *A2* 1. (currently amended) An iris camera module comprising:
2 *Cont* an image pickup optical system for picking up the an
3 image of the iris; and
4 a target optical system for displaying the a target of
5 for the eye,
6 wherein the target optical system and the image pickup
7 optical system are integrated into a single unit.

1 2. (original) An iris camera module according to claim 1,
2 wherein the image pickup optical system includes:
3 an infrared illuminating section for irradiating an
4 infrared ray onto the eye;
5 an image pickup section for picking up the image of the
6 iris by detecting the infrared ray reflected on the
7 eye; and
8 an image pickup optical section for guiding the infrared
9 ray reflected on the eye to the image pickup
10 section, wherein the target optical system includes:
11 a target screen where the target is displayed; and
12 a target optical section for guiding the image of the
13 target on the target screen to the eye.

1 3. (original) An iris camera module according to claim 2,
2 wherein the image pickup optical section and the target
3 optical section include a common half mirror for reflecting to
4 guide the infrared ray reflected on the eye to the image
5 pickup section and guiding the image of the target on the
6 target screen to the eye without reflecting the image.

1 4. (original) An iris camera module according to claim 2,

2 wherein the image pickup optical section and the target
3 optical section include a common half mirror for guiding the
4 infrared ray reflected on the eye to the image pickup section
5 without reflecting the infrared ray and reflecting to guide
6 the image of the target on the target screen to the eye.

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1 *plor?* 5. (original) An iris camera module according to claim 1,
2 wherein the target optical system includes a screen
3 illuminating section for illuminating the target screen.

1 6. (original) An iris camera module according to claim 2,
2 wherein the image pickup section includes:
3 an image pickup element for picking up the image of the
4 iris;
5 a storage for storing a reference iris information; and
6 a comparator section for comparing an information based
7 on the image of the iris picked up by the image
8 pickup section with the reference iris information
9 to output the comparison result as to whether
10 matching is obtained.

1 7. (original) An iris camera module according to claim 6,
2 wherein the reference iris information can be overwritten only
3 a predetermined number of times in the storage.

1 8. (original) An iris camera module according to claim 2,
2 wherein the image pickup section includes:
3 an image pickup element for picking up the image of the
4 iris; and
5 a connector section for coupling an external circuit
6 detachable from the image pickup section,
7 wherein the external circuit includes:
8 a storage for storing a reference iris information; and

9 a comparator section for comparing an information based
10 on the iris picked up by the image pickup section
11 with the reference iris information to output the
12 comparison result as to whether matching is
13 obtained.

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9. (new) An iris camera module comprising: A⁷
2 an image pickup optical system for picking up an image of
3 the iris of a user; and
4 a target optical system including a target screen for
5 displaying a target for aligning the eye of the
6 user, [wherein the target optical system and the
7 image pickup optical system are integrated onto a
8 common substrate.]

1 2/ 10. (new) An iris camera module according to claim 9,
2 wherein the image pickup optical system includes:
3 an infrared illuminating section for irradiating an
4 infrared ray onto the eye;
5 an image pickup section for picking up the image of the
6 iris by detecting the infrared ray reflected on the
7 eye; and
8 an image pickup optical section for guiding the infrared
9 ray reflected on the eye to the image pickup
10 section,
11 and further wherein the target optical system includes:
12 a target optical section for guiding the image of
13 the target on the target screen to the eye.

1 3/ 11. (new) An iris camera module according to claim 10,
2 wherein the image pickup optical section and the target
3 optical section include a common half mirror for reflecting to
4 guide the infrared ray reflected on the eye to the image
5 pickup section and guiding the image of the target on the

6 target screen to the eye without reflecting the image.

1 4/ 12. (new) An iris camera module according to claim 10,
2 wherein the image pickup optical section and the target
3 optical section include a common half mirror for guiding the
4 infrared ray reflected on the eye to the image pickup section
5 without reflecting the infrared ray and reflecting to guide
6 the image of the target on the target screen to the eye.

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1 5/ 13. (new) An iris camera module according to claim 9,
2 wherein the target optical system includes a screen
3 illuminating section for illuminating the target screen.

1 6/ 14. (new) An iris camera module according to claim 10,
2 wherein the image pickup section further includes:
3 an image pickup element for picking up the image of the
4 iris;
5 a storage for storing a reference iris information; and
6 a comparator section for comparing an information based
7 on the image of the iris picked up by the image
8 pickup section with the reference iris information
9 to output the comparison result as to whether
10 matching is obtained.

1 7/ 15. (new) An iris camera module according to claim 14,
2 wherein the reference iris information can be overwritten only
3 a predetermined number of times in the storage.

1 8/ 16. (new) An iris camera module according to claim 10,
2 wherein the image pickup section further includes:
3 an image pickup element for picking up the image of the
4 iris; and
5 a connector section for coupling an external circuit
6 detachable from the image pickup section,

7 and wherein the external circuit includes:
8 a storage for storing a reference iris information; and
9 a comparator section for comparing an information based
10 on the iris picked up by the image pickup section
11 with the reference iris information to output the
12 comparison result as to whether matching is
13 obtained.

1 9/14/15 17. (new) An iris camera module comprising:
2 an image pickup optical system for picking up an image of
3 the iris of a user;
4 a target optical system for displaying a target for
5 aligning the eye of the user;
6 a storage for storing a reference iris information; and
7 a comparator section for comparing an information based
8 on the image of the iris picked up by the image
9 pickup section with the reference iris information
10 to output the comparison result as to whether
11 matching is obtained, wherein
12 the reference iris information can be overwritten only a
13 predetermined number of times in the storage.

1 18. (new) An iris camera module comprising:
2 an image pickup optical system for picking up an image of
3 the iris of a user;
4 a target optical system for displaying a target for
5 aligning the eye of the user;
6 a storage for storing a reference iris information; and
7 a comparator section for comparing an information based
8 on the image of the iris picked up by the image
9 pickup section with the reference iris information
10 to output the comparison result as to whether
11 matching is obtained, wherein
12 the reference iris information cannot be overwritten.

*Amended
Changed
Overwritten
Temporary*

19. (new) An iris camera module comprising:
an image pickup optical system for picking up an image of
the iris of a user, said image optical system
including:
an illuminating section for irradiating a ray onto
the eye;
an image pickup section for picking up the image of
the iris by detecting the ray reflected on the
eye; and
an image pickup optical section for guiding the ray
reflected on the eye to the image pickup
section;
a target optical system for displaying a target for
aligning the eye of the user, said target optical
system including:
a target screen;
a target optical section for guiding the image of
the target on the target screen to the eye; and
a screen illuminating section for illuminating the
target screen with either ambient light or
artificial light;
a storage for storing a reference iris information; and
a comparator section for comparing an information based
on the image of the iris picked up by the image
pickup section with the reference iris information
to output the comparison result as to whether
matching is obtained, wherein
the reference iris information can be overwritten only a
predetermined number of times in the storage.

20. (new) An iris camera module according to claim 19,
wherein the image pickup optical section and the target
optical section include a common half mirror for reflecting to

4 guide the infrared ray reflected on the eye to the image
5 pickup section and guiding the image of the target on the
6 target screen to the eye without reflecting the image.

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21. (new) An iris camera module according to claim 19,
2 wherein the image pickup optical section and the target
3 optical section include a common half mirror for guiding the
4 infrared ray reflected on the eye to the image pickup section
5 without reflecting the infrared ray and reflecting to guide
6 the image of the target on the target screen to the eye.
